

FutureScape Exhibit Design Challenge

Competition Criteria & Judging Rubric

Tech Dome Penang · Theme: Inspiring the Future — STEM & AI · Deadline: 30 June 2026

Design submission (Optional physical prototype)

This is a design competition. Submissions consist of :

- Concept paper :
 - i) Exhibit objective
 - ii) Methodology
 - iii) Bill of Materials (BOM),
 - iv) Itemise cost estimation
- Separate technical drawing.

The winning design will be considered as a candidate for actual fabrication and display as a live exhibit at Tech Dome Penang.

1. Judging Criteria

All submissions will be evaluated by a panel of judges based on the five criteria below, for a total of 100 points.

Theme Alignment & Innovation

25 points

- Clearly connects to Inspiring the Future within STEM & AI
- Demonstrates originality and a creative approach to the topic
- Addresses a real-world problem or opportunity
- Reflects forward-thinking application of science, technology, engineering, mathematics, or AI

Design Quality & Technical Clarity

25 points

- Clarity and detail of the technical drawing
- Soundness of the proposed methodology and approach
- Logical and appropriate component selection as reflected in the BOM
- Overall design is coherent, well-thought-out, and buildable in principle

Suitability for Tech Dome Visitors

20 points

- Appropriate for Tech Dome Penang's diverse visitor profile (families, school groups, and the general public)
- Educational value and potential for hands-on visitor engagement
- Accessible and inclusive design approach
- Potential to inspire curiosity and lasting interest in STEM & AI

Documentation Quality

20 points

- Completeness and clarity of the concept paper
- All required sections are present and well-written
- Accuracy and detail of the bill of materials (BOM)
- Overall professionalism and presentation of the submission

Budget Planning & Feasibility

10 points

- Itemised cost estimation is realistic and well-researched
- Budget aligns with the components listed in the BOM
- Evidence of cost-efficiency consideration
- Entries without a budget plan will be deemed incomplete and disqualified

Criterion	Points
Theme Alignment & Innovation	25
Design Quality & Technical Clarity	25
Suitability for Tech Dome Visitors	20
Documentation Quality	20
Budget Planning & Feasibility	10
Total	100

2. Submission Requirements

Each submission must include the following. Incomplete submissions will not be evaluated.

2.1 Concept Paper — Required (included in submission)

The concept paper is the primary document of the submission. It must be a written document that clearly communicates the exhibit concept and its relevance to the STEM & AI theme. The concept paper must include all four of the following sections:

1. Exhibit Objective

State clearly what the exhibit is about, what it aims to achieve, and the specific STEM & AI topic it addresses.

2. Methodology

Describe how the exhibit works : the underlying scientific or technological principle, the proposed mechanism, and how a visitor would interact with it.

3. Bill of Materials (BOM)

Provide a complete list of all materials and components needed to build the exhibit. Include the item name, quantity, and unit of measurement for each entry.

4. Itemised Cost Estimation

Assign an estimated unit cost and total cost for every item listed in the BOM. Include a grand total at the end. All figures must be stated in Malaysian Ringgit (MYR). Submissions without this section will be considered incomplete and will not be evaluated.

Note on intended audience

The intended audience for all submissions is the existing visitor base of Tech Dome Penang (families, school students, and the general public). Participants are not required to define an audience in the concept paper, but should ensure their exhibit design is engaging and appropriate for this profile. This will be assessed under the Suitability for Tech Dome Visitors judging criterion.

2.2 Technical Drawing — Required (separate attachment)

The technical drawing must be submitted as a separate document or file from the concept paper. It must show:

- The overall layout and structure of the exhibit
- Key dimensions (length, width, height where applicable)
- All major components, clearly labelled
- Any relevant assembly or interaction details

Both hand-drawn and digital formats are accepted. The drawing must be legible and sufficiently detailed for judges to understand the physical form of the exhibit.

Optional physical prototype

Submissions should consist of a concept paper and technical drawing. Although a physical prototype is optional, providing one is highly encouraged as it can significantly improve the presentation and evaluation of your concept.

3. General Rules

- a. **The theme is Inspiring the Future within STEM & AI. The specific topic is open : science, technology, engineering, mathematics, and AI applications are all welcome.**
- b. **All submissions must be original work by the submitting participant or team. Plagiarism or the reproduction of existing designs will result in immediate disqualification.**
- c. **Incomplete submissions : those missing the concept paper, the technical drawing, or any required section within the concept paper will not be evaluated.**
- d. **All submissions must be directed to Tech Dome Penang through the designated submission channel before the deadline.**
- e. **The decisions of the judges are final. No appeals will be entertained after results have been announced.**
- f. **Rights of Penang Tech Centre Bhd (“PTC”) as the Organiser**
 - i. PTC reserves the right, at its sole and absolute discretion, to review, amend, vary, or revise the Prize Winner selection process at any time without prior notice. The decision of the judges shall be final and binding, and no correspondence, appeal, or dispute in relation thereto will be entertained.
 - ii. PTC reserves the right, at its sole and absolute discretion, to substitute any Prize with another prize of similar value at any time without prior notice. All Prizes are non-transferable, non-exchangeable, and awarded on an “as is” basis. Prizes may not be exchanged for cash, credit, vouchers, or any other items, whether in part or in full.
 - iii. By participating in the Contest, all Participants acknowledge and agree that all intellectual property rights, title, and interest in any photographs, artworks, submissions, or materials uploaded or submitted as part of the Contest shall vest in and belong exclusively to PTC. Participants further consent to PTC’s collection, use, processing, publication, reproduction, and/or disclosure of any personal information provided, including but not limited to the Participant’s name, photograph, image, likeness, artwork, or submission for purposes related to the Contest, including advertising, publicity, marketing, promotional activities, and any ancillary purposes, in any form of media and manner deemed appropriate by PTC, without additional compensation, prior notice, or further permission. Participants shall not be entitled to claim ownership, royalties, or any other form of compensation in relation to such materials.
- g. **Privacy Notice**
 - i. By participating in the Contest, you consent to PTC collecting, using, processing, and disclosing the personal information provided in the entry form for purposes related to the administration and management of the Contest. This may include the publication of your name, photograph, image, or other relevant information if you are selected as a winner or participate in Contest-related events, for advertising, publicity, and promotional purposes, without additional compensation. Please note

that PTC requires your personal information to facilitate and process your participation in the Contest, failing which your participation may not be processed.

- ii. In the case of minors or individuals who are not legally competent to provide consent, you confirm that you are duly authorised to act on their behalf and to provide consent for the collection, use, processing, and disclosure of their personal information in accordance with this Privacy Notice.

4. Winner Recognition

Potential exhibit at Tech Dome Penang

The winning design will be evaluated as a candidate for actual fabrication and display as a live exhibit at Tech Dome Penang. Shortlisted designs may be contacted for further development discussions with the Tech Dome Penang team.

5. Submission Deadline

Deadline: 30 June 2026

All concept papers, technical drawings, and any supporting documents must be submitted to Tech Dome Penang no later than 30 June 2026, end of day. Late submissions will not be considered under any circumstances.

6. How to Submit

Please submit all required documents through the link below before the deadline:

Submission Link / Portal

<https://forms.gle/ieMu6cC4EiABW5be6>

7. Contact & Person in Charge

For enquiries regarding the competition, please contact:

Person in Charge (PIC)

Name: Shane
Email: shaneong@techdomepenang.org
Phone: 017-4882019